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May 28, 1982

PUB-NO: JP357085953A

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TITLE: CARBIDE DISPERSION TYPE SINTERED IRON ALLOY WITH SUPERIOR WEAR RESISTANCE

PUBN-DATE: May 28, 1982

INVENTOR-INFORMATION:

NAME

COUNTRY

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US-CL-CURRENT: 75/246

INT-CL (IPC): C22C 38/26; C22C 38/38; C22C 33/02

ABSTRACT:

PURPOSE: To enhance the wear and scuffing resistances of the resulting titled alloy by providing a composition consisting of C, Cr, Mn, one or more among P, B and Si, one or more among Zr, Hf, Nb and Ta, and the balance Fe.

CONSTITUTION: This carbide dispersion type sintered Fe alloy has a composition consisting of, by wt., 0.5~3% C, 5~20% Cr, 0.05~5.0% one or more among P, B and Si, 0.05~3.0% Mn, 0.05~10.0% one or more among Zr, Hf, Nb and Ta, and the balance Fe with inevitable impurities or further contg. 0.5~10.0% Mo and/or W and/or 0.5~10.0% one or more among Ni, Co and Cu. This sintered alloy has superior wear, scuffing and pitting resistances and does not damage the opposite member.

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